USER MANUAL

Manual number
PTI-06-06/11/07/A

Retail Scales

- WTC 6/S, WTC 15/S, WTC 30/S
- WTC 6/SW, WTC 15/SW, WTC 30/SW

MANUFACTURER OF ELECTRONIC WEIGHING INSTRUMENTS

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Disclaimer

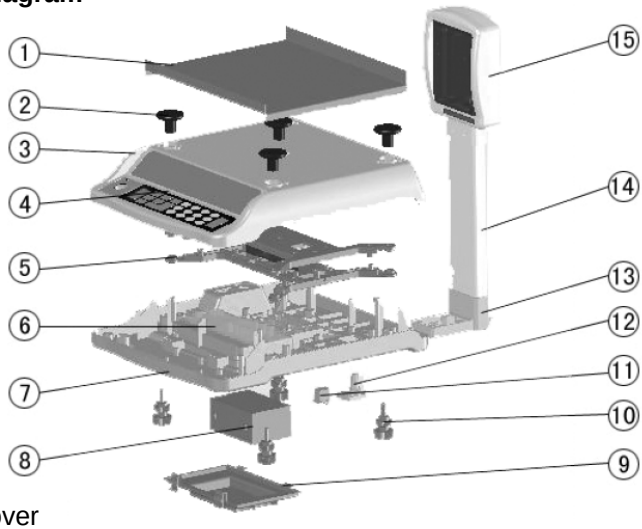
We've been tried to provide complete and accurate information in this manual, however, we make no representations and warranties with respect to the contents of this manual, and reserve the right to make change to our products and manual without notice.

1. FUNCTIONS

- Auto zero tracking (AZT)
- Full range tare
- Dual weighing span conversion
- 99 unit price of cargo number store and recall
- Check goods number according to the unit price or check unit price
- according to goods number
- Overload warning
- 9 unit prices recalling directly(M1-M9)

2. STRUCTURE

2.1. Structure diagram



1. Platter
2. Support pad
3. Cover
4. Keypad
5. Frame
6. PCB
7. Base
8. Battery
9. Battery box cover
10. Adjustable foot
11. I/O switch
12. Adapter socket

13; 14; 15. Tower assembly

Caution:
Before using the scale remove the protection foil from the weight pan.

3. OPERATION KEYS AND FUNCTIONS

3.1. [*]

Used in calibration

3.2. [ZERO/BL]

a. Zeroing the scale within permitted range
b. Used in calibration
c. Used when storing the unit price
d. Switch on or switch off backlight

3.3. [TARE/ENTER]

a. Tare
b. Confirm the present operation when checking or storing unit price, displaying the accumulated value or calibrating

3.4. [+]

N/A

3.5. [MODE/PLU]

a. Check corresponding unit price of the goods number
b. Store and recall the unit price
c. Enter or exit unit price storing state
d. Shift the division valued cooperating with [8] in calibrating state

3.6. [M1]...[M9]

Directly recall the unit price of goods No. from 1 to 9

3.7. [C]

a. Clear unit price
b. Clear goods number
c. Clear the accumulated value

3.8. Digit keys

a. Input unit price
b. Input goods number when recalling the unit price
c. Input the Max. Capacity and the value of the loaded weight under calibrating state

4. POWER

The scale has dual power . There are a switch and a socket on the bottom of its right side of scale body. The socket is used for connecting AC adapter.

5. OPERATION

5.1. Turning on and off

A. When AC power is used, insert the adaptor first and turn on switch. When DC power is used turn on switch directly. Turn off the switch to cut off the power of the scale.

B. Turn on switch, the display window will firstly display a version number for 1 second and then execute self-checking in sequence of 9~0. When zero position is normal the weight window displays* 0.00*. *LLLLL* While if the scale gives out a warning sound and displays *HHHHH* *S-HXX* or , 2 seconds later the weight window displays *XXXXX* or* X - X X X * *(X * is an arbitrary digit), then check the scale.

C. If the *BAT* indicating light is on , connect adapter to AC power and turn on switch to charge the battery in time. The scale can also be operated when the battery is being charged. When the scale is on, turn switch off, all the display will disappear.

D. After finishing the daily work, please turn power off. For the sake of safety, please disconnect the adaptor form, AC power.

5.2. Zero setting

5.2.1. Under power off condition, turn on the scale, it will stay within zero tracking range , the initial zeroing range is K1.

5.2.2. When the weight is within repeat zeroing range, press [ZERO] key, the weight window will display *00000*. The manual zeroing range each time is K2 and the repeated zeroing range is K3.

5.3. Tare setting

When the container or package is loaded on the platform, press [TARE] eye to enter tare mode. The scale will display *0 * and* N .W * cursor will be light on. Press [TARE] again, it will return to the original weighing state and * N . W * cursor will disappear. The tare may be a negative value. The tare processes are shown in the following table:

Table:

Steps	**Display**	**Meaning**
Load the package or container	0.10	The weight of the package or container is 0.1 kg
Press [TARE] key once	0.00	Taring and the indicating cursor (light) *N.W* (T) is on
Take away the package	-0.10	Display negative tare value
Press [TARE] key again	0.00	Clear the negative tare and the indicating cursor (light)* N .W * (T) is off.

5.4. Unit price inputting and clearing

5.4.1. Directly press digit keys to input the unit price. At this time the unit price and total price of the current goods will display in the corresponding window.

5.4.2. Two ways to clear or change unit price

- Directly clear the unit price by [C] key.
- After the previous unit price has been input for 5 seconds, press the digit keys to replace the previous unit price value.

5.5. Unit price storing

This scale can store 99 unit prices totally.

5.5.1. Under normal state, press and hold [ZERO] key and then press [PLU]
the total price window will display*1d X* (X is goods number, from 1~99), the weight window display weight and the price window display unit price.

5.5.2. To change the unit price, just firstly press [C] key to clear the original unit price and then input the new unit price.

5.5.3. Press [ENTER] key to confirm the unit price corresponding to a goods number, then the number and unit price will be stored in the scale. At this time the goods number in the total price window will automatically add 1.

Note:
When the goods number exceeds 99, it will change to 1 automatically!

5.5.4. Repeat 6.7.2 and 6.7.3 operations to input all the needed unit prices.

5.5.5. Press and hold [ZERO] key and then press [PLU], the scale will return to normal weighing state.

5.6. Recall the stored unit prices

5.6.1. Press [PLU] key, the total price window will display* 1 d - - * , the weight window display weight and the unit price window display *----- * to wait for inputting the cargo number. Input the goods number
through digit keys, the total price window will display*1d X*,
X is the input goods number .Pressing digit key[3] means the goods number is 3. Pressing [3] twp times means the cargo number is 33.

5.6.2. Press [ENTER] key to confirm the current goods number, the unit price window will display the unit price corresponding to the goods number, and the scale will return to normal weighing state.

5.6.3. Press [M1]...[M9], the unit price corresponding to cargo number 1 to 7 will be displayed in unit price window and the scale will then return to normal weighing state.

5.7. Checking the stored unit price

5.7.1. Press [PLU] key twice , the total price window will display *1dc 1* (1 is goods number), the weight window display weight and the unit price window display the unit price corresponding to the goods number 1. There are two ways to check:

A. Keep pressing the [PLU] key, press the goods number once, the total price window will add 1 and the unit price window displays the unit price corresponding to the goods number each time. When the goods number exceeds 99, it will back to 1 automatically.

B. Keep pressing and hold [PLU] key for 2 seconds to check the stored unit prices quickly. At this time, the goods number in the total price window will add 1 automatically and the unit price in the unit price window will change according to the goods number. When in unit price display, just loose [PLU] key to make a checking.

5.7.2. Press [ENTER] key. the scale will back to normal weighing state and display the unit price need to check.

5.8. Voltage saving function

When the scale is type of LED, it has the function of battery saving display to prolong the working time of the battery, That means if the scale remains zero for 5 seconds and if you don't operate the keypad, the weight window will display *0* and the total price window will display.

5.9. Overload warning

When the scale leaves factory, the overload warning value is set at the point of Max. Capacity plus 9d(d is division value). When the weight of the goods exceeds or is equal to the set value, the weight window of the scale will display * ␣␣␣␣␣* and the scale gives out a buzz sound.

5.10. Checking the voltage of the battery

The scale is equipped with 6V/4.5Ah battery. When the voltage is fully charged, it can work about 60 hours with LCD type, and it can work about 24 hours with LED type. The scale can excute self-checking of the battery voltage. When the battery is running out of voltage, the battery indicating light will be on. If go on working, it will automatically turn off in a few minutes to protect the battery. At this time, connect adapter to AC power to charge the battery.

5.11. Turn on and turn off backlight (LCD display)

5.11.1. When the backlight is off, hold [ZERO] key for 3 seconds and then loose it, the total price window will display* b 1 o n * . At this time the backlight is on and about 3 seconds later, the scale will back to normal weighing state.

5.11.2. When the backlight is on, and hold [ZERO] key for 3 seconds and then loose it, the total price window will display* b 1 o f f * . At this time the backlight is off and about three seconds later the scale will back to normal weighing state.

6. RS232 INTERFACE

WTC retail scales can be optionally equipped in an RS232 interface allowing transmission from the scale to an external device. Transmission parameters: 1200.7.N.1. (baud rate 1200, 7 bits of data, no parity, 1 stop bit). There is continuous transmission set without possibility to change it.

Frame format:

02h	status byte A	status byte B	status byte C	weight display 6-digits	Tare 6-digits	Unit price display 6-digits	To-pay value display 6-digits	0Dh

Status byte A

Unit and work mode– always 2Dh in retail scales.

Status byte B

Scale status and point position:

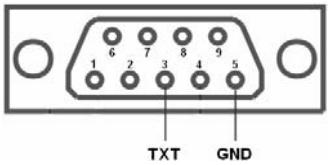
More significant nibble – always 3.

	Status	**value**
D3	Equilibrium	0 - stabilisation 1 – no stabilisation
D2	Overweight	0 – weighing 1 – overweight
D1	Indication sign	N/A
D0	tare	0 – no tare 1 – tare set

Status byte C

Reserved, always 20h (space).

Indications from displays are sent in a format of 6 digits, justified to the right, with leading zeros.



RS232 connector

7. TECHNICAL PARAMETERS

	WTC 6/SW	**WTC 15/SW**	**WTC 30/SW**
Capacity Max	6 kg	15 kg	30 kg
Readability	2 g	5 g	10 g
Tare range	-6 kg	-15 kg	-30 kg
Pan	250 × 300 mm		
Operating temp.	+5°C ÷ +35°C		
Power supply	230V AC / 9V DC and accumulator		
Display	LCD × 3 pcs.		

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Pan	250 × 300 mm		
Operating temp.	+5°C ÷ +35°C		
Power supply	230V AC / 9V DC and accumulator		
Display	LCD × 3 pcs.		

8. CARE AND MAINTENANCE

8.1. To make sure the scale in good maintenance and avoid using it in dust and trembling environment and put it under level state.

8.2. When weighing, put the load in the center of the scale as far as possible.

8.3. Don't wash the scale with corrosive impregnate.

8.4. The weight of the load should be less than the Max. Capacity +9d(dis division value). If it exceeds the overload warning value, the indicate will display * ␣␣␣␣␣* and the scale will give out a buzz sound.

8.5. Don't put the heavy load on scale for a long time and don't shock the platform with heavy load, or the load cell may be damaged.

8.6. Be sure to insert the adapter to a quality power source.

8.7. When the scale doesn't respond cut off all the power (AC and DC) first, then connect power on it again.

8.8. When there is a malfunction, please cut off the power immediately and pull out the plug.

8.9. Without authorization, never try to disassemble or repair the scales. Send it to the service agent in local area or contact us immediately.

The calibration and simple rectifying methods are not open to users. For details, please contact our sales agent in your country. Forbid to change the setting data of trading scale without the permission of the law !

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